Evaluating Particulate Control Technologies

During the August 24, 1999, Stationary Source Subcommittee (Subcommittee) meeting, Air Resources Board (ARB) staff agreed to develop for purposes of discussion criteria that could be used to evaluate technologies that reduce particulate emissions from diesel-fueled engines. After considering preliminary comments by members of the Subcommittee and reviewing the requirements of Section 39665 of the California Health and Safety Code, ARB staff propose that the criteria presented in the three attached tables be used to evaluate and compare the various control technologies.

The first table will be used to describe the control technology and addresses its availability, feasibility, emission reduction capability, costs, and adverse impacts. This table will be completed for each control technology reviewed by the ARB and the Subcommittee. The second table will be used to identify specific stationary or portable applications of the control technology being reviewed. The third table will be used to compile information about particulate emission tests conducted on engines controlled by the technology being reviewed. Together, the information addressed by each of these tables should allow the ARB and the Subcommittee to evaluate the control technologies with detail sufficient for the needs assessment report.

As was agreed to during the August 24 meeting, ARB staff set up a teleconference to discuss the control technology evaluation criteria. This teleconference is scheduled as follows:

Date:	Thursday, September 2, 1999
Time:	2:00 pm - 4:00 pm PDT
Call-in Number:	(888) 422-7128
Participant Code:	608 916

Members of the Subcommittee are encouraged to review this information and present comments during the teleconference. If there are any questions, please contact Robert Hughes at (916) 327-5608 or via email at rhughes@arb.ca.gov; or Michael Tollstrup, Manager, Project Support Section, at (916) 323-8473 or via email at mtollstr@arb.ca.gov.

Control Technology Evaluation

Product Name: _____

Product Vendor: _____

Vendor Address: _____

_____

Product Description: _____
(What is the product, and how does it work?) _____

_____

Applicability: _____
(What types of engines can the product be installed on?) _____

_____

Emission Reduction Claim: _____
(What level of emission reduction can be achieved? Address: EC, SOF, and SO_3?) _____

_____

Emission Test Results: _____
(Summarize emission test results and describe in detail on the attached table.) _____

_____

_____

Product Costs:

Initial: _____

Installation: _____

Operating: _____

Maintenance: _____

Durability / Product Life: _____
(Hours, miles or years) _____

Product Warranty: _____

Adverse Impacts:

Environmental: _____

Safety: _____

Special Operating Requirements: _____
(e.g. ultra-low sulfur fuel or minimum exhaust temperature, etc...) _____

_____

_____

Current Status: _____
(e.g. commercially available, or still under development) _____

_____

Other: _____
(e.g. fuel penalty, reduced product life, weight, etc...) _____

_____

List of Stationary &/or Portable Applications

Product Name:

Facility / Operator	Engine Information	Permit / Registration	Number of Applications	Time in Service	Emission Limit	Emission Test Results

List of Emission Test Results

Product Name:

Test Method	Source Test Company	Engine Information	PM Emission Rate (w/o Controls)	PM Emission Rate (w/ Controls)	Control Efficiency
		Make: _____ Model: _____ Year: _____ BHP: _____ Application: _____ Configuration: _____ Fuel Use: _____ Exhaust Temp: _____			
		Make: _____ Model: _____ Year: _____ BHP: _____ Application: _____ Configuration: _____ Fuel Use: _____ Exhaust Temp: _____			
		Make: _____ Model: _____ Year: _____ BHP: _____ Application: _____ Configuration: _____ Fuel Use: _____ Exhaust Temp: _____			